WHAT IS CLAIMED IS:

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A photomask comprising:

a transparent substrate;

a hollow section formed on a surface of said transparent substrate;

a shade pattern including a shade section, said shade section made up of a shade film and formed in said hollow section; and

reflection preventing sections, each formed according to one of cases:

each reflection preventing section formed on said shade section;

each reflection preventing section formed under said shade section; and

each reflection preventing section formed on and under said shade section.

2. A photomask comprising:

a transparent substrate;

a shade pattern formed on said surface of said transparent substrate; and

a phase shift pattern selectively formed on said shade pattern and said transparent substrate, ρ

wherein a surface of said phase shift pattern is that

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3. A photomask according to claim 2, wherein an end section of said phase shift pattern that is contacted to said transparent substrate has a sloped shape that is gradually thin.

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Sub ant 4. A photomask according to claim 2, wher in a difference of a step betwe in said phase shift pattern and said transparent substrate at said end section of said phase shift pattern that is contacted to said transparent substrate is gradually small.

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A photomask comprising:

a transparent substrate;

a hollow section formed on a surface of said transparent substrate;

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a shade pattern made up of a shade film, said shade film formed in said hollow section; and

a phase shift pattern, whose surface is that, selectively formed on said transparent substrate having said shade pattern formed in said hollow section.

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6. A photomask according to claim 5, wherein a thickness of an end section of said phase shift pattern contacted to said transparent substrate is gradually thin.

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. A photomask comprising:

a transparent substrate;

a hollow section formed on a surface of said transparent substrate;

a shade pattern made up of a shade film, said shade film formed in said hollow section; and

a phase shift pattern formed -on said transparent substrate including said shade pattern formed in said hollow section.

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30 8. A photomask according to claim 7, wherein an end section

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of said phase shift pattern that is contacted to said transparent substrate has a sloped shap that is gradually thin.

Conto

- A photomask according to claim 2, wherein said phase shift pattern includes a phase shift pattern of a Levenson's type.
- 10. A photomask according to claim 2, wherein said phase shift pattern includes a phase shift pattern of an auxiliary shifter type.

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- 11. A photomask according to claim 2, wherein said phase shift pattern includes a phase shift pattern of an edge highlighting type.
- 15 12. A photomask according to claim 2, wherein said phase shift pattern includes a phase shift pattern of a half tone type.
 - 13. A photomask according to claim 2, wherein said phase shift pattern includes a phase shift pattern of a half tone type with a shade pattern.
 - 14. A photomask according to claim 2, wherein said phase shift pattern includes a phase shift pattern of a shifter shading type with a shade pattern.

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15. A photomask according to claim 2, wherein said phase shift pattern includes a phase shift pattern of an intermediate phase type.

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16. A photomask fabrication method comprising the steps of:

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forming a resist film on a transparent substrate,

forming a desired pattern on said resist film by d veloping said resist film aft r said resist film is selectively exposing by using a radiation ray;

forming hollow sections in said transparent substrate by selectively etching said transparent substrate by using said resist film as a mask;

eliminating said resist film from said transparent substrate;

forming a first reflection preventing film in each of said hollow sections;

forming a shade film on said first reflection preventing film formed in each of said hollow sections;

forming a shade pattern by performing a chemical and mechanical polishing for said shade film; and

forming a second reflection preventing film on said shade pattern;

wherein said processes for forming said first reflection preventing process and said second reflection preventing process are performed selectively.

17. A photomask fabrication method comprising the steps of:
forming a shade pattern on a transparent substrate;
coating a phase shift film on both said transparent
substrate and said shade pattern;

forming a phase shift pattern by selectively etching said phase shift film by using a radiation ray; and

performing a chemical and mechanical polishing for a surface of said phase shift pattern in order to form said phas shift pattern having a desired thickness.

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18. A photomask fabrication m thod according to claim 17, after th step of forming said phas shift patt rn, further comprises the steps of:

selectively etching said phase shift pattern by using said radiation ray; and

performing said chemical and mechanical polishing for said surface of said phase shift pattern that has been etched in order to form said phase shift pattern having a desired thickness and a flat surface.

19. A photomask fabrication method according to claim 17, after the step of forming said shade pattern on said transparent substrate, further comprises the steps of:

forming a resist film on said shade pattern;

forming a resist pattern by selectively etching said resist film by using said radiation ray;

selectively etching said transparent substrate by using said resist pattern as a mask,

eliminating said resist pattern from said transparent substrate; and

performing said chemical and mechanical polishing for said surface of said phase shift pattern.

25 20. A photomask fabrication method comprising the steps of: forming a resist film on a transparent substrate;

forming a desired pattern on said resist film by developing said resist film after said resist film is selectively exposed by using a radiation ray;

 $^\prime$ forming hollow sections in said transparent substrate by

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selectively tching said transparent substrate by using said resist film as a mask;

eliminating said r sist film from said transparent substrate;

forming a shade film in each of said hollow sections;

performing a chemical and mechanical polishing for said

shade film in order to form a shade pattern;

forming a phase shift film on said transparent substrate;

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forming a phase shift pattern by selectively etching said phase shift film by using said radiation ray.

21. A photomask fabrication method according to claim 20, after the step of forming said phase shift pattern by selectively etching said phase shift film by using said radiation ray, further comprises the step of:

performing said chemical and mechanical polishing for said phase shift pattern formed on said transparent substrate.

22. A photomask fabrication method comprising the steps of:
forming a resist film on a transparent substrate;

forming a desired pattern on said resist film by developing said resist film after said resist film is selectively exposed by using a radiation ray;

forming hollow sections in said transparent substrate by selectively etching said transparent substrate by using said resist film as a mask;

liminating said resist film from said transparent substrate;

forming a shade film in each of said hollow sections;

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and

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performing a chemical and mechanical polishing for said shade film in order to form a shade patt rn;

forming a r sist film on said transparent substrat in which said shade pattern has been formed;

selectively etching said resist film by using said radiation ray; and

selectively etching said transparent substrate.

23. A photomask fabrication method according to claim 22, after the step of selectively etching said transparent substrate by using said radiation ray, further comprises the step of:

performing said chemical and mechanical polishing for said transparent substrate.

24. A photomask fabrication method according to claim 16, wherein one of an electron beam, a laser beam, and a monochromatic beam is used as said radiation ray.

- 20 25. A fabrication method of semiconductor integrated circuits such as a liquid crystal display, wherein said photomask according to claim 1 is used.
- 26. A fabrication method of semiconductor integrated circuits such as a liquid crystal display, wherein said photomask fabrication method according to claim 16 is included.

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